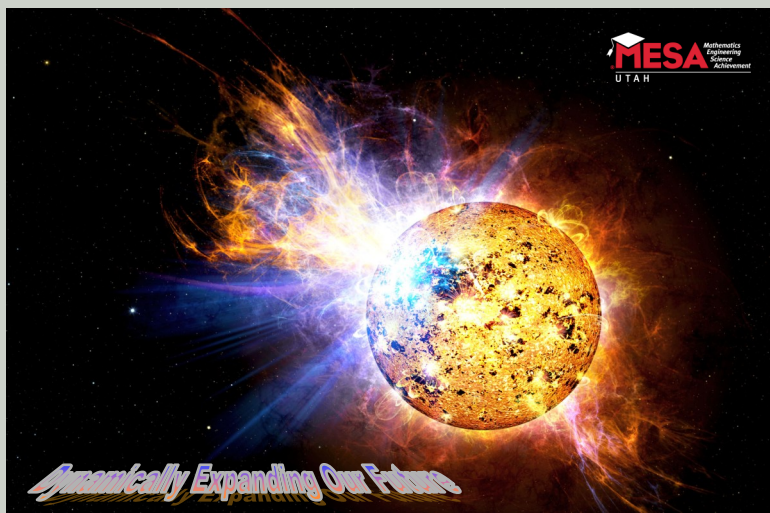


The purpose of MESA is to increase the number of under-served ethnic minority and all female students who pursue course work, advanced study, and possible careers in mathematics, engineering, and science areas.

2008-2009 (Fall)				
	Actual # of students in school	% of total student body	Actual # of students in MESA	% of specific group in MESA
African Americans	1941	2.1%	188	3.2%
American Indians/Alaskan Natives	1079	1.2%	143	2.5%
Asians	2553	2.8%	546	9.4%
Hispanics/Latino	20177	21.9%	1649	28.5%
Pacific Islanders/Native Hawaiians	2372	2.6%	313	5.4%
White Females	30958	33.6%	2063	35.6%
White Males	32537	35.3%	766	13.2%
Other/Unknown	590	0.6%	125	2.2%
<b>Totals:</b>	<b>92207</b>	<b>100.00%</b>	<b>5793</b>	<b>100.00%</b>

6.28%  
% of students in MESA



## MESA...IT'S ALL ABOUT YOU!

MESA is growing. Thanks to the wonderful work of MESA Coordinators, Counselors, and Advisors our clubs continue to grow. As can be seen from the information given on the last at-a-glance report (see above chart), our numbers are strong at 5793 members enrolled. Yet, we can do so much more.

There is a need to ensure that everyone involved with MESA is actively speaking about the wonderful things going on in our program. Everyone from students to district personnel should be raving about what our kids are doing. Not that this isn't happening, but it would be nice to have it all in one spot. There are amazing things going on in our schools through MESA and it's time you had a way to see them. This newsletter is a way to do that.

So...

The monthly eMESA is born. Write about what's going on in your districts, schools,

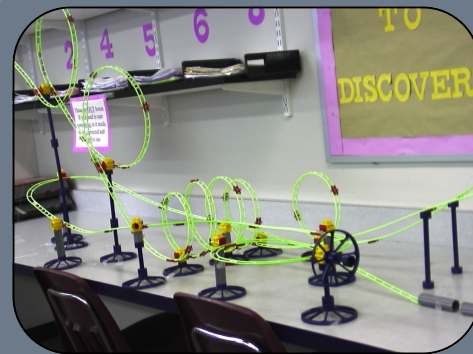
clubs; have your students write and turn in reports to you on what is going on with their club. This newsletter is a forum for you to reach your students, parents, and communities to tell them about the great things going on in MESA. Tell us your important calendar dates and we'll be sure to include them. Use this as a way to get your information out to the world, we'll be happy to oblige.

This newsletter is all about you!

I personally want to thank all of you for your hard work and efforts in helping our students find the best in themselves while having a whole lot of fun in the process.

You guys Rock!

Jeff Ojeda, State MESA Specialist



Fremont High School  
Weber School District

Above: This is a marble roller coaster that our MESA club worked on. (It really would make it through all the loops!)

Heather Johnson-Math Department

# WEBER

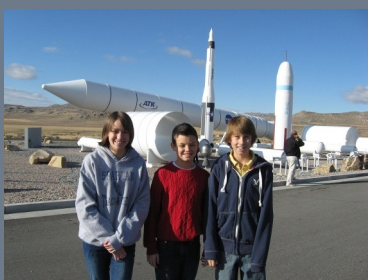
12/4/08



Golden Spike National Historic Site



ATK Launch Systems



MESA officers

## South Ogden Jr. High School

Golden Spike National Historic Site—a park ranger relayed the events that lead up to the driving of the last spike.

ATK Launch Systems—they took a tour of the outside exhibit and then were able to watch a static test on the launch site.

Judy Hoskins—MESA Advisor

## MESA RAMA Jordan School District

Finding engaging activities and field trips for the MESA students in Jordan District is an enormous challenge and reward for its MESA advisors/counselors. This year has been no exception. This challenge has been overwhelmingly realized this year. Here are some of the activities listed as provided by the MESA advisors:

A Mock CSI, “Barbie Bungee”, Parent Night, Marshmallow Bridges, College Information/Computers, ATK Launch Video and Ball Launch Challenge, Write-it Do-It, Paper Airplane Construction and Contest, Bridge Building, Moon Cycles, MESA “Taboo” Game, Guest Speaker from Schiff Nutrition, “How College Can Get You: A Good Job, A Boat, A Trip to Las Vegas, and Love”, Spaghetti Towers, Gumdrops/Toothpick Dome Building, Roller Coasters, Biomes and Ecosystem, Ken Petersen’s Mouse Trap Cars, Archaeology, Trebuchet, Bob Marx, GPS, Utah Mentor, Math and Probability, “Ooblek Activity”, Silly Putty with

Styrofoam Beads, College Scavenger Hunt, Chemistry, Sound Waves, Straw Towers, Speak It and Build It, Line Design, Group “Build a Square”, Filled 96 backpacks for homeless shelter, Delivery of cards made by MESA students to a rest home.

And some of the Field Trips include: Planetarium, SACNAS, Body Worlds, Biotech JATC, Sego Lily Gardens, SLCC High School MESA Day, SLCC Middle School MESA Day, U of U Chemical Engineering, Planning for Physics Day at Lagoon in MAY.

MESA students and advisors in Jordan School District just completed MESA RAMA, an event where each MESA school brainstormed math, science, and engineering ideas. These ideas were fun, interactive, and they required hands-on participation. It was also a way to reward them for their yearlong participation. Their projects were simply fantastic. Sixteen high schools and middle schools participated and their project titles include:

Trebuchet “Games”, DNA Separation Activity, Artificial Snow – “An Engineering



Bob Marx  
celebrating the  
end of a  
successful  
MESA RAMA!



Application", Bernoulli's Cheese Ball, Solid or Liquid, Gum Drop Towers, Wind Energy, Air Pressure and Density, Acids and Bases, Magic Numbers, Quicksand Goo, Build Your Own Roller Coaster, Cartesian Divers, Paper Aeronautics, Tetrahedrons, and Candle Experiment.

Dr. Lyn Burningham, coordinator of MESA in Jordan District, is the strength and motivation for MESA RAMA. She gets down and dirty as she assists with all facets of the planning, setting up, and even the cleaning up phases of the three hour extravaganza. Toni Soeffker, the secretary and organizer, oversees the maintaining of spaces, materials, and scheduling. She makes things run so perfectly. Bob Marx, the MESA assistant, gets to track the MESA advisors and students in their planning. He also has tons of fun taking pictures of the event, helping with the set up, ongoing requirements, and being a marvelous "gofer".

MESA RAMA was held at the South Towne Mall on March 14, 2009. The Mall has cooperated for the past few years allowing a totally visible and open court space at no charge on a Saturday. Numerous students, parents, and community patrons got the "feel" of the event and responses were extremely complimentary. Thanks to the Mall officials who allow Jordan to come to their spacious and comfortable facility.

Guests referred by members of the IAC and STEP Directors is another part of MESA RAMA. Those who were represented at the event were MOOG, Weber State University, and Intermountain Healthcare. Our thanks to them for participating in the event. Each had interesting and informative exhibits. Thanks also to Dr. Kenneth Petersen for not only getting the word out to these groups but also coming to support the event. A special thanks to Jeff Ojeda, of the Utah State Office of Education, for his visit to MESA RAMA and his constant support. MESA RAMA is an annual event and encourages and appreciates its state wide support.

Our MESA students will be recognized at the MESA Banquet Award on April 30,

2009. Three recipients from each MESA school will be recognized for their selection as "Outstanding Math Student", "Outstanding Science Student", outstanding qualities in leadership, overall outstanding, service, or most improved. We look forward to this time to recognize and honor the parents of these students as well.

Jordan District is pleased to have six of its MESA seniors be recipients of MESA/STEP Scholarships. The awards will be presented on April 13, 2009. They represent Jordan High (2), Copper Hills High, Itineris Early College High (2), and West Jordan High. A special thanks to Intermountain Healthcare, SHRM, U of U Math, UHEAA/MESA/STEP, and UT Science Advisor's Office for sponsoring the scholarships to these students. Our congratulations go to all of the scholarship recipients throughout the entire State's MESA community.

Jordan is looking forward to a great year for 2009-2010 and wishes the new Canyons District much success. We will miss working with Jordan High, Hillcrest High, Eastmont Middle, Midvale Middle, and Union Middle School.

Bob Marx, MESA Assistant



Copper Hills  
DNA Separation Activity

## RAMA '09



South Jordan Middle School  
Candle Experiment



Bingham High  
Trebuchet Games



Mt. Jordan Middle School  
Quicksand Goo



Elk Ridge Middle School  
Air Pressure and Density



Joel P. Jensen Middle School  
Acids and Bases

AMES 2009 SLVSEF Awards			
Special Awards			
Award	Place	Student	
American Psychological Association	1st	Skarleth	Matute
American Society of Civil Engineers	1st	Christopher	Bujnowski
Great Basin Chapter of Air & Waste Management	1st	Nathan	Nguyen
Intel Excellence in Computer Science	1st	Matt	Vitelli
MU Alpha Theta	1st	Christopher	Bujnowski
SentrX Animal Care	1st	Lauren	Gutierrez
<b>Symantec 10K</b>	<b>1st</b>	<b>Matt</b>	<b>Vitelli</b>
The Leonardo	1st	Matt	Vitelli
U.S. Air Force	1st	Chas	Blakemore
U.S. Army	1st	Rachel	Howery
U.S. Green Building Council, Utah Chapter	1st	Ludmila	Nicolia
U.S. Metric Association	1st	Chas	Blakemore
U.S. Navy/U.S. Marine Corps	1st	Chas	Blakemore
Utah Council of Teachers of Mathematics	1st	Matt	Vitelli
American Meteorological Society	2nd	Christopher	Bujnowski
U.S. Navy/U.S. Marine Corps	2nd	Matt	Vitelli
U.S. Army	3rd	Brady	Bowen
U.S. Air Force	4th	Matt	Vitelli
	HM	Nathan	Nguyen
Category Awards			
Award	Place	Student	
Senior Division Team	N/A	Sarah	Niitsuma
		Shwan	Javdan
Animal Sciences	1st	Bryana	Snyder
Behavioral & Social Sciences	1st	Danielle	Niitsuma
Biochemistry	1st	Blake	Hethmon
Chemistry	1st	Chas	Blakemore
Computer Science	1st	Matt	Vitelli
Energy & Transportation	1st	Peter	Tran
Environmental Management	1st	Nathan	Nguyen
Animal Sciences	2nd	Lauren	Gutierrez
Behavioral & Social Sciences	2nd	Skarleth	Matute
Engineering: Materials & Bioengineering	2nd	Cesia	Dominguez
Environmental Sciences	2nd	Christopher	Bujnowski
Engineering: Electrical Mechanical	3rd	Ludmila	Nicolia
Engineering: Materials & Bioengineering	3rd	Vincent	Holt
Medicine & Health Sciences	3rd	Maia	Bromley-Dulfano
Westminster Scholarships			
<b>Westminster Scholarships, *1K, 80K</b>	N/A	Blake	Hethmon
		Bryana	Snyder
		Cesia	Dominguez
		Lauren	Gutierrez
		Ludmila	Nicolia
		Maia	Bromley-Dulfano
		Nathan	Nguyen
		Peter	Tran
		Rachel	Howery
<b>Westminster Scholarships, *1K, 80K</b>		Sarah	Niitsuma
		Skarleth	Matute
		Vincent	Holt
ISEF Awards			
Award	Place	Student	
<b>Individual Intel ISEF Grand Champion</b>	N/A	Matt	Vitelli
<b>Individual Intel ISEF Alternate</b>	N/A	Chas	Blakemore
<b>Team Intel ISEF Grand Champions</b>	N/A	Sarah	Niitsuma
		Shwan	Javdan

## AMES' SCIENCE FAIR SUCCESS...

In its 4th year of participating in the local, regional, and international science fair, AMES (Academy for Math, Engineering, and Science) has performed with a high level of success. Initially, AMES received corporate funding from Micron and I-M Flash to begin a science fair program. As a MESA school that invites and supports a diverse student body with a focus on math and science, AMES directs many resources to its students. But science fair is a big part (its all star team). This year at the regional fair, AMES students earned 49 awards including 5 students who will be attending the international fair in May to compete for over \$4 million in

Great  
work  
AMES!

scholarships. Of the AMES students competing in the regional fair, 30 are MESA students!!!

Tanya Vickers, AMES science fair coach/mentor, has also recently authored a book, "Teen Science Fair Sourcebook," (refer to SL Tribune 3/23). Ms. Vickers, committed to the principles of MESA, will be teaching a course this year for the U of Utah College of Education, on assisting teachers with science fair activities, using her book as the main text.

Al Church, Principal

	Major monetary scholarships:	International Science Fair Finalists (only 3 projects are selected)	Entered in 12/17 categories. 14 projects received category awards.
<b>2009 Salt Lake Valley Science and Engineering Fair</b> <b>17/18 AMES projects recognized with 1 or &gt; awards</b> <b>Total of 49 awards to AMES students</b>	10K Symantec Scholarship (Matt Vitelli) 80K scholarship to Westminster College (Sarah Niitsuma) 12-4k scholarships to Westminster College <b>Total= \$138,000</b>	1-individual grand award winner Team grand award Runner up and alternate, grand award	<b>7 1<sup>st</sup> place</b> <b>4 2<sup>nd</sup> place</b> <b>3 3<sup>rd</sup> place</b>



# DAVIS SCHOOL DISTRICT RECRUITMENT NIGHT—9/11/08 NORTH DAVIS JR. HIGH



## MESA Contact

Jeff Ojeda  
jeffrey.ojeda@schools.utah.gov  
(801) 538-7945

Tandalaya Stitt  
tandalaya.stitt@schools.utah.gov  
(801) 538-7977

*Dynamically Expanding Our Future*